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- S. **TOTTENIANA**.—Dr. Binney says this is synonymous with *ovalis*, Say.\* But Dr. Gould properly says it differs in being more fragile, and has a shorter spire. It also differs in color. The interior of all my specimens is iridescent, a character I have never seen in *ovalis*. Mr. W. G. Binney says (v. 4,) he "agrees entirely with Lea and Gould in separating it from *obliqua*, Say."
- S. **NUTTALLIANA**.—Dr. Binney says this is synonymous with *ovalis*, Gould. Dr. G., however, says this "no doubt is a well-marked species." It certainly is very different from *ovalis*, Gould, being much more slender, more oblique, and different in color. In fact I believe that Dr. Gould has described the same shell as *rusticana*, in his volume of "Exposition Shells, p. 28."
- S. **OREGONENSIS**.—Dr. Binney says that this "cannot at present be ascertained." Dr. Gould says that the specimens furnished by Mr. Lea "leave no doubt of being decidedly a well-marked species." *Oregonensis* is perhaps nearest to *Wardiana*, but that shell has a smoother surface, is greenish, while *Oregonensis* is yellowish, and in the turns of the spire they differ entirely.
- S. **INFLATA**.—Dr. Binney makes this synonymous with *campestris*, Say. Mr. W. G. Binney says he "is inclined to doubt its specific weight." *Inflata* is smoother, more inflated and more obtuse in the spire, as well as in really having one whorl less. It ought to be retained until more specimens could be examined. This species was founded on a single specimen sent by Dr. Ravenel, who also sent me the true *campestris*.

#### Description of a new Species of PLANORBIS.

BY ISAAC LEA.

**PLANORBIS BILLINGSII**.—Testâ lævi, planulatâ, supernè plano convexâ, subtus lato umbilicatâ, estriatâ; anfractibus quaternis; labro acuto; aperturâ grandiusculâ, subrotundâ, obliquâ.

*Hab.*—Ottawa River, Canada West, E. Billings, Esq.

#### Descriptions of Thirteen New Species of MELANIDE of the United States.

BY ISAAC LEA.

**GONIOBASIS SUBRHOMBICA**.—Testâ subcarinatâ, subfusiformi, subtenui, tenebroso-olivâ, estriatâ, evittatâ; spirâ obtusâ; suturis impressis; anfractibus quinis, planulatis, supernè carinatis; aperturâ grandi, rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ tenui et aliquantò contortâ.

*Hab.*—Hog Creek, North Georgia, J. Clark.

**GONIOBASIS FRATERNA**.—Testâ carinatâ, fusiformi, subtenui, luteâ, evittatâ vel quadrivittatâ; spirâ obtuso-conicâ; suturis valdè impressis; anfractibus instar senis, planulatis, supernè acuto carinatis; aperturâ parviusculâ, ovato-rhomboidèâ, intus albâ; labro acuto, vix sinuoso; columellâ tenui, infernè contortâ.

*Hab.*—Bibb Co. and Cahawba River, Alabama. E. R. Showalter, M. D.

**GONIOBASIS ROMÆ**.—Testâ subcarinatâ, conoideâ, subcrassâ, tenebroso-corneâ, evittatâ; spirâ subelevatâ, aliquantò obtusè elevatâ; suturis impressis; anfractibus septenis, planulatis, supernè carinatis; aperturâ grandiusculâ, ovatâ, intus albidâ; labro acuto, subsinuoso; columellâ tenui et contortâ.

*Hab.*—Rome, North Georgia, Rev. G. White.

\* At p. 72, v. 2, Dr. B. says that *Tottentiana* is "unquestionably the same with *obliqua*, Say," considering *obliqua* = *ovalis*, but the figures of the two last species are very different.

**GONIOBASIS QUADRICINCTA.**—Testâ lævi vel obsoletè plicatâ, subfusiformi, subcrassâ, luteâ, quadrivittatâ; spirâ conoideâ; suturis regulariter impressis; anfractibus instar octonis, planulatis, supernè angulatis; aperturâ grandiusculâ, ovatâ, intus quadrivittatâ; labro acuto, aliquantò sinuoso; columellâ tenui et aliquantò contortâ.

*Hab.*—Coosa and Cahawba Rivers, Alabama, E. R. Showalter, M. D.; East Tennessee and North Georgia, Bishop Elliott.

**GONIOBASIS SMITHSONIANA.**—Testâ plicatâ, fusiformi, tenebroso-corneâ, subcrassâ, mucronatâ, evittatâ; spirâ obtuso-conicâ; suturis impressis; anfractibus instar septenis, planulatis, in medio angulatis; aperturâ subgrandi, ovato-rhomboidèâ, intus albidâ; labro acuto, subrecto; columellâ subcrassâ et aliquantò contortâ.

*Hab.*—North Georgia, Smithsonian Institution, and East Tennessee, Bishop Elliott.

**GONIOBASIS PULLA.**—Testâ lævi, exsertâ, subtenui, tenebroso-fuscâ, nitidâ; spirâ elevatâ; suturis regulariter impressis; anfractibus instar septenis, curvatis; aperturâ parviusculâ, ovato-rhomboidèâ, intus dilutè purpureâ; labro acuto, subsinuoso; columellâ tenui, purpurecenti, aliquantò contortâ.

*Hab.*—Cumberland Gap, East Tennessee, Major S. S. Lyon, U. S. Engineers.

**GONIOBASIS PUPÆFORMIS.**—Testâ lævi, pupæformi, crassiusculâ, tenebroso-melleâ, obsoletè quinque vittatâ; spirâ obtusâ; suturis impressis, infernè tumidis; anfractibus instar senis, convexiusculis; aperturâ subgrandi, elongato-pyriformi, intus vittatâ; labro acuto, recto; columellâ supernè incrassatâ.

*Hab.*—Coosa River, Alabama, E. R. Showalter, M. D.

**TRYPANOSTOMA VENUSTUM.**—Testâ lævi, acuminatâ, luteo-corneâ, tenui, mucronatâ, evittatâ; spirâ subelevatâ; suturis impressis; anfractibus novenis, planulatis; aperturâ parviusculâ, subconstrictâ, ellipticâ; labro acuto, subsinuoso; columellâ tenui, subcontortâ.

*Hab.*—Big Prairie Creek, Alabama, Dr. Showalter.

**TRYPANOSTOMA CINCTUM.**—Testâ carinatâ, subcrassâ, tenebroso-corneâ; spirâ subelevatâ; suturis impressis; anfractibus instar septenis, planulatis; aperturâ parviusculâ, rhomboidèâ, intus albidâ; labro acuto, sinuoso; columellâ infernè incrassatâ et contortâ.

*Hab.*—North Alabama, Professor Tuomey.

**TRYPANOSTOMA UNIVITTATA.**—Testâ obtuso-carinatâ, pyramidatâ; subcrassâ, dilutè olivaceâ, nitidâ, univittatâ; spirâ elevatâ; suturis impressis; anfractibus, planulatis; aperturâ parviusculâ, rhomboidèâ, intus albidâ, obsoletè univittatâ; labro acuto, sigmoideo; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Cahawba River, Alabama, E. R. Showalter, M. D.

**TRYPANOSTOMA CORNEUM.**—Testâ striatâ, exsertâ, tenui, subdiaphanâ, dilutè corneâ; spirâ elevatâ; suturis regulariter impressis; anfractibus octonis, subconvexis; aperturâ elongatâ, constricto-ellipticâ, intus albidâ; labro acuto, valdè sinuoso; columellâ tenui et contortâ.

*Hab.*—Tennessee, J. G. Anthony.

**TRYPANOSTOMA NAPOIDEUM.**—Testâ lævi, obtuso-conoideâ, subcrassâ, corneâ, evittatâ; spirâ curtâ, mucronatâ; suturis impressis; anfractibus septenis, supernè convexiusculis, ultimo inflato; aperturâ grandi, subrhomboidèâ, intus albâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valde contortâ.

*Hab.*—Tennessee, Prof. Troost.

**SCHIZOSTOMA SHOWALTERII.**—Testâ lævi, cylindraceâ, productâ, crassâ, mel-leâ, evittatâ; spirâ exsertâ; suturis valdè impressis, infrâ funiculo instructis;

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anfractibus subplanulatis; fissurâ parviusculâ; aperturâ parvâ, ellipticâ, intus albâ; labro acuto, aliquantè sinuoso; columellâ infernè et supernè incrassatâ.

*Hab.*—Coosa River, Alabama, E. R. Showalter, M. D.

**Description of five new Species of LYMNÆA of North America.**

BY ISAAC LEA.

LYMNÆA SMITHSONIANA.—Testâ fusiformi, rufo-fuscescente, subdiaphanâ, parum perforatâ, excellissimè transversè striatâ; spirâ obtusâ; suturis impressis; anfractibus senis, convexis; aperturâ grandiusculâ, ovatâ, submarginem fuscâ; labro expanso; columellâ parum incrassatâ et vix plicatâ.

*Hab.*—Loup Fork of the Platte River, F. V. Hayden, M. D., Surg. U. S. Army.

LYMNÆA TRASKII.—Testâ fusiformi, tenui, delutè fuscâ, subdiaphanâ, parum perforatâ, minutissimè striatâ, nitidâ; spirâ conœideâ; suturis impressis; anfractibus quinis, convexiusculis; aperturâ parviusculâ, ovatâ; sub marginem fuscâ; labro subexpanso; columellâ incrassatâ et plicatâ.

*Hab.*—San Antonio Arroya, John B. Trask, M. D.

LYMNÆA JAMESII.—Testâ subturritâ, tenuissimâ, albidâ, diaphanâ, perforatâ, striis rectis indutis; spirâ exsertâ; suturis valdè impressis; anfractibus quinis, convexis; aperturâ grandiusculâ, subrotundatâ; labro expanso; columellâ aliquanto plicatâ.

*Hab.*—Ponds near Cincinnati, Ohio, U. P. James, Esq.; and La Fayette, Walker Co., Georgia, Rev. Geo. White.

LYMNÆA LECONTH.—Testâ inflatâ, subcrassâ, perforatâ, excellissimè transversè striatâ; spirâ obtusâ; suturis valdè impressis; anfractibus valdè convexis; aperturâ subrotundâ, grandiusculâ; labro expanso; columellâ medio incrassatâ et impressâ.

*Hab.*—Georgia, Major John LeConte.

LYMNÆA ARCTICA.—Testâ ellipticâ, subinflatâ, subcrassâ, imperforatâ, minutè striatâ, dilutè corneâ; spirâ obtusâ; suturis impressis; anfractibus convexis; aperturâ lato-ellipticâ, subgrandi; labro regulariter expanso; columellâ medio incrassatâ et magnâ plicâ indutâ.

*Hab.*—Moose River of Hudson's Bay, Arctic America, Smithsonian Institution.

**Descriptions of two new Species of UNIONIDÆ from South Africa.**

BY ISAAC LEA.

SPATHA NATALENSIS.—Testâ subsulcatâ, oblongâ, compressâ, subnitidâ, valdè inæquilaterali, ad laterè planulatâ, anticè rotundâ, posticè rotundatâ; valvulis crassiusculis, anticè aliquantè crassioribus; natibus vix prominulis, ad apices minute undulatis; epidermidè tenebroso-rufo-fuscâ, eradiatâ; margaritâ purpureâ et valdè iridescente.

*Hab.*—Umpingave River, Port Natal, South Africa, Rev. J. McKen.

UNIO NATALENSIS.—Testâ plicatâ, anticè sulcatâ, oblongâ, ad laterè planulatâ, valdè inæquilaterali, anticè rotundatâ, posticè obtusè angulatâ; valvulis subcrassis, anticè aliquantè crassioribus; natibus subprominentibus, acuminatis, ad apices undulatis; epidermidè luteolâ, eradiatâ; dentibus cardinalibus compressis, obliquis corrugatisque; lateralibus longis, lamellatis subrectisque; margaritâ dilutè salmonis colore tinctâ et valdè iridescente.

*Hab.*—Umpingave River, Port Natal, South Africa, Rev. J. McKen.